

50X1-HUM

SUPPLEMENT TO  
REPORT NO.

THIS IS UNEVALUATED INFORMATION

GIGANT WORKS IS SITE OF NEW INDUSTRIAL CITY;  
POLAND TO GET SOVIET BUILDING MACHINERY

Production in the building industry is expected to increase 143 percent and employment 50 percent during the 6-year period of the plan. To achieve these figures, labor productivity must increase 85 percent with increased mechanization of building operations.

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Mechanization of earthwork, which formerly consumed much manpower, will release a great number of men. A 0.5-cubic-meter mechanical excavator replaces 70 or 80 workers, a bulldozer 80 workers, and a stone crusher of 10 cubic meter per hour capacity 70 workers.

A good index of the mechanization which is to take place in the building industry is the following plan for mechanization of various building operations in 1955: earthwork 40 percent, concrete preparation 85 percent, mortar preparation 70 percent, and painting 35 percent. This is lower than the mechanization in the USSR in 1950 (earthwork 60 percent, concrete preparation 95 percent, mortar preparation 90 percent, painting 50 percent).

Although mechanization in Poland will not be achieved easily, it will be possible because of expanded domestic industry and imports. Imports include machines and equipment for prefabricated building parts, mechanical shovels, bulldozers, mixers, plaster machines, conveyors, cranes and other building equipment, and special equipment for scientific research institutions. The total value of Polish orders placed with the USSR equals that of orders placed with all other countries. The USSR supplies heavy equipment, especially shovels and bulldozers, light equipment such as plastering and painting machines, and some laboratory equipment.

#### DEVELOP NEW TYPE OF REINFORCED CONCRETE -- Przegląd Techniczny, No 1-2, Jan-Feb 50

Professor Engineer Kozak, Dean of the Faculty of Construction at the Engineering School in Poznan, has worked out a new method of reinforcing concrete. Instead of using a reinforcing iron grid, concrete is poured over thin steel wires that have been stretched. When the tension is released, the wires return to their natural size and compress the concrete.

The new building material has unlimited uses and is more economical in the consumption of both steel and cement than ordinary reinforced concrete.

#### PRODUCE DURALUMIN GEAR WHEELS -- Slowo Polskie, No 57, 26 Feb 50

Great difficulty has always been encountered in replacing the plywood gear wheels used in driving the looms at the State Cotton Mills in Mirsk. Recently, Leon Owczarek and Bogdan Getner, in charge of maintenance and repair of looms, constructed duralumin gear wheels which have proved twice as durable and cost 30 percent less than the wooden ones.

#### SETS UP METAL-CUTTING RECORD -- Wola Ludu, No 62, 3 Mar 50

Wladyslaw Zurawski of the Bydgoszcz Machine Shops has set a new record in metal cutting. He obtained the speed of 900.1 meters per minute in cutting construction steel on a lathe.

The prewar average of metal cutting outside the USSR was 90 meters per minute.

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